

CLAIMS:**1. A record carrier comprising**

- a data area (22) for storing data in the form of marks, in which the data is encoded by means of a channel code, wherein a parameter of the channel code is controlled so as to introduce a predetermined run length distribution in the marks on the record carrier,
5 thereby introducing first information relating to a watermark, and
- a non-data area (21,23) comprising second information relating to a watermark,
the first and the second information forming the watermark.

2. **A record carrier as claimed in claim 1, wherein the first and the second
10 information forming the watermark (34,36) are orientated with respect to each other.**

3. **A record carrier as claimed in claim 2, wherein the first and the second
information is orientated with respect to each other using position information (54) present in
the a non-data area.**

15 4. **A record carrier as claimed in claim 2 or 3, wherein the record carrier further
comprises angle information indicating a predetermined angle between the first information
and the second information.**

20 5. **A record carrier as claimed in claim 4, wherein the angle information is used
as authentication information.**

6. **A record carrier as claimed in claim 1 or 2, wherein the non-data area is an
inner-ring area (21) and/or an outer-ring area (23).**

25 7. **A record carrier as claimed in claim 1 or 2, wherein the non-data area is a
graphics band, text band, matrix band or identification band.**

8. A record carrier as claimed in claim 1, wherein the second information comprises picture and/or text information.

9. A record carrier as claimed in claim 1 or 2, the data area comprising a pattern 5 of substantially parallel tracks, wherein the predetermined run length distribution is correlated from track to track, so that the first information is visually detectable.

10. A record carrier as claimed in claim 1 or 2, wherein the first information is non-visually detectable.

11. A record carrier as claimed in claim 1 or 2, in which the channel code is the EFM channel code as used for the CD Digital Audio disc, wherein the parameter is the choice of merging bits.

15 12. A record carrier as claimed in claim 1 or 2, wherein the parameter is the choice between channel words for information words from alternative tables, for example, information words 1 up to and including 88 in the EFM+ channel code as used in DVD, or the choice between sync words or the choice between states.

20 13. A method of providing a watermark on a record carrier, the method comprising the steps of:

- receiving uncoded data,
- receiving first information relating to the watermark, which first information is to be provided in the encoded data,
- receiving second information relating to the watermark, which second information is to be provided in a non-data area,
- encoding the uncoded data to encoded data by means of a channel code, in which a parameter of the channel code is controlled under the influence of the first information relating to the watermark for introducing a predetermined run length 25 distribution in the marks on the record carrier,
- storing the encoded data on the record carrier,
- storing the second information in the non-data area.